

NAVAL TECHNICAL TRAINING COMMAND

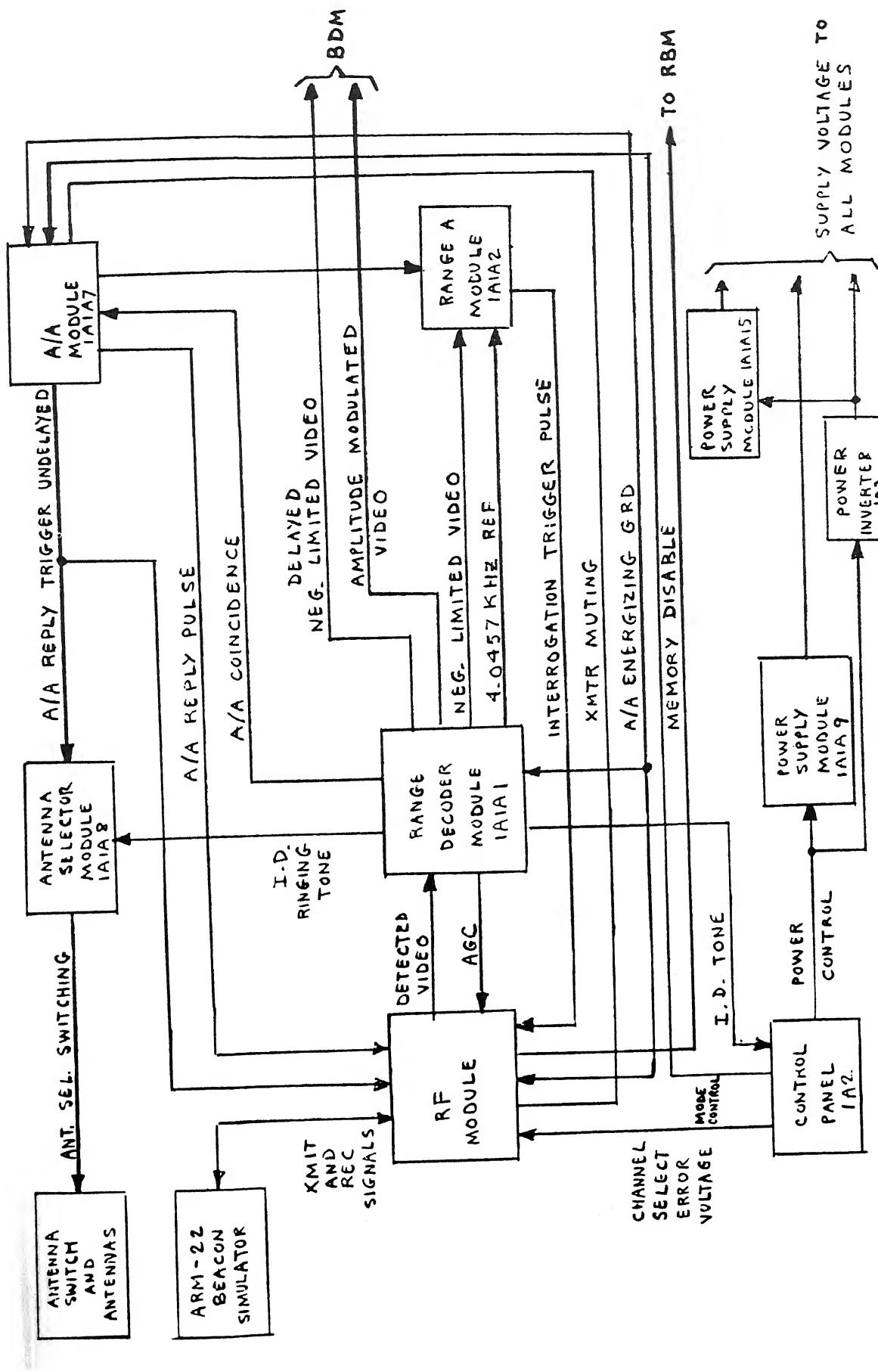
SCHEMATIC DIAGRAMS
DEVICE 8H7

ADVANCED FIRST TERM AVIONICS COURSE

CNTT-M807 (Rev. 11/84)

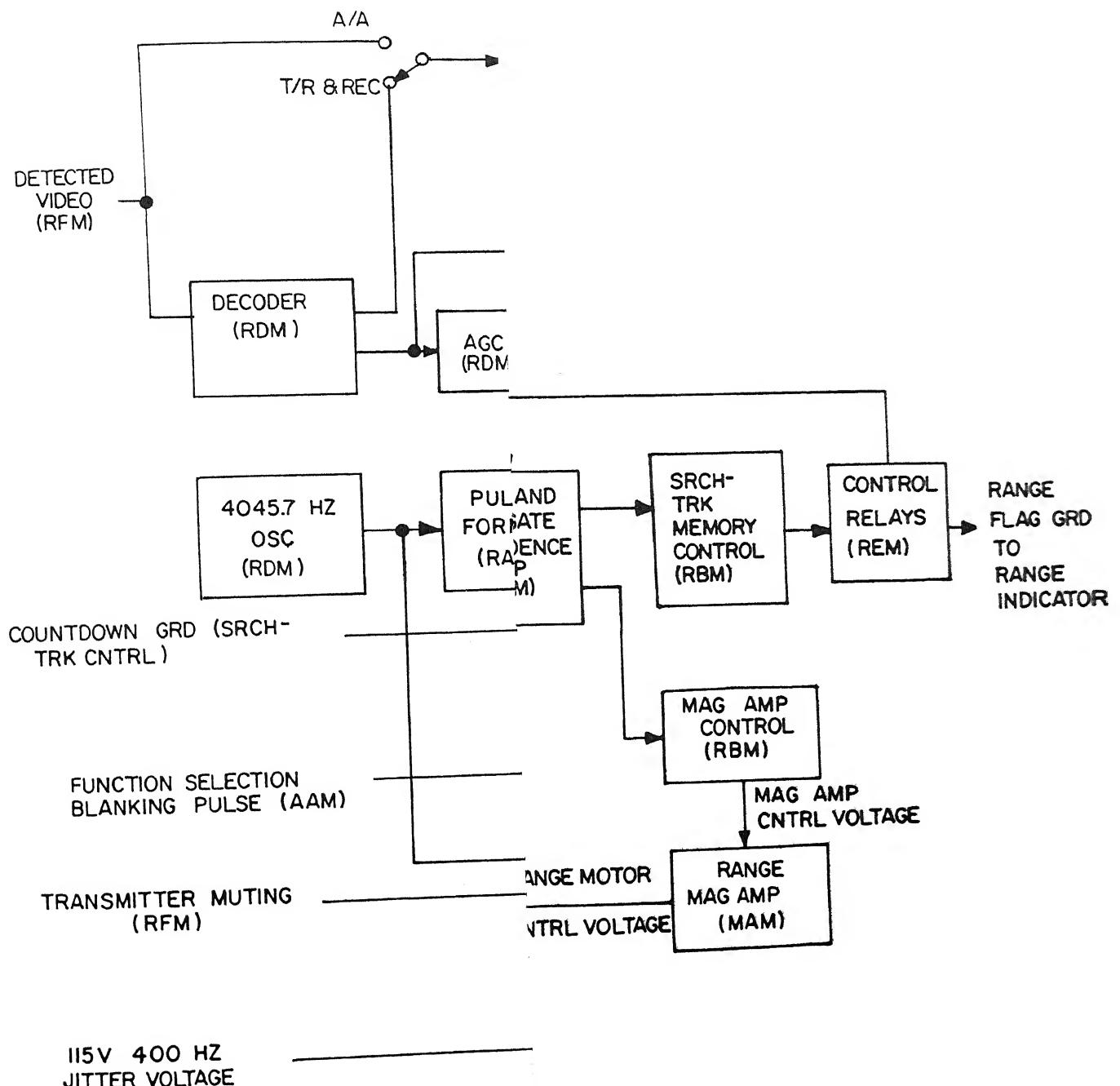
NAVAL AIR TECHNIC
NAVAL AIR STATION MELBOURNE

For Training



2

Figure 4-2. Receive-Transmit Function, Block Diagram



3. Ranging System, Simplified Block Diagram

4-37

3

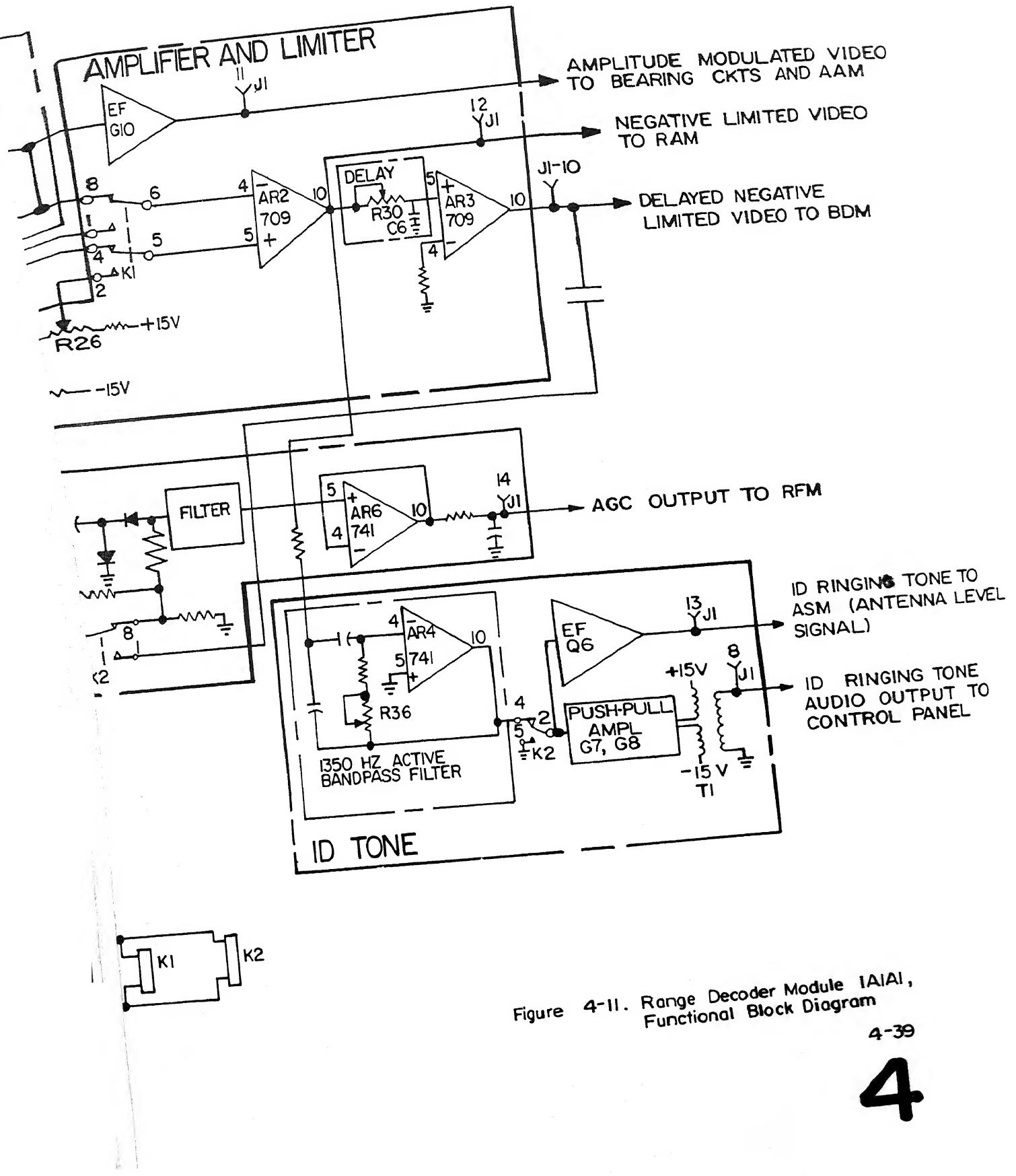
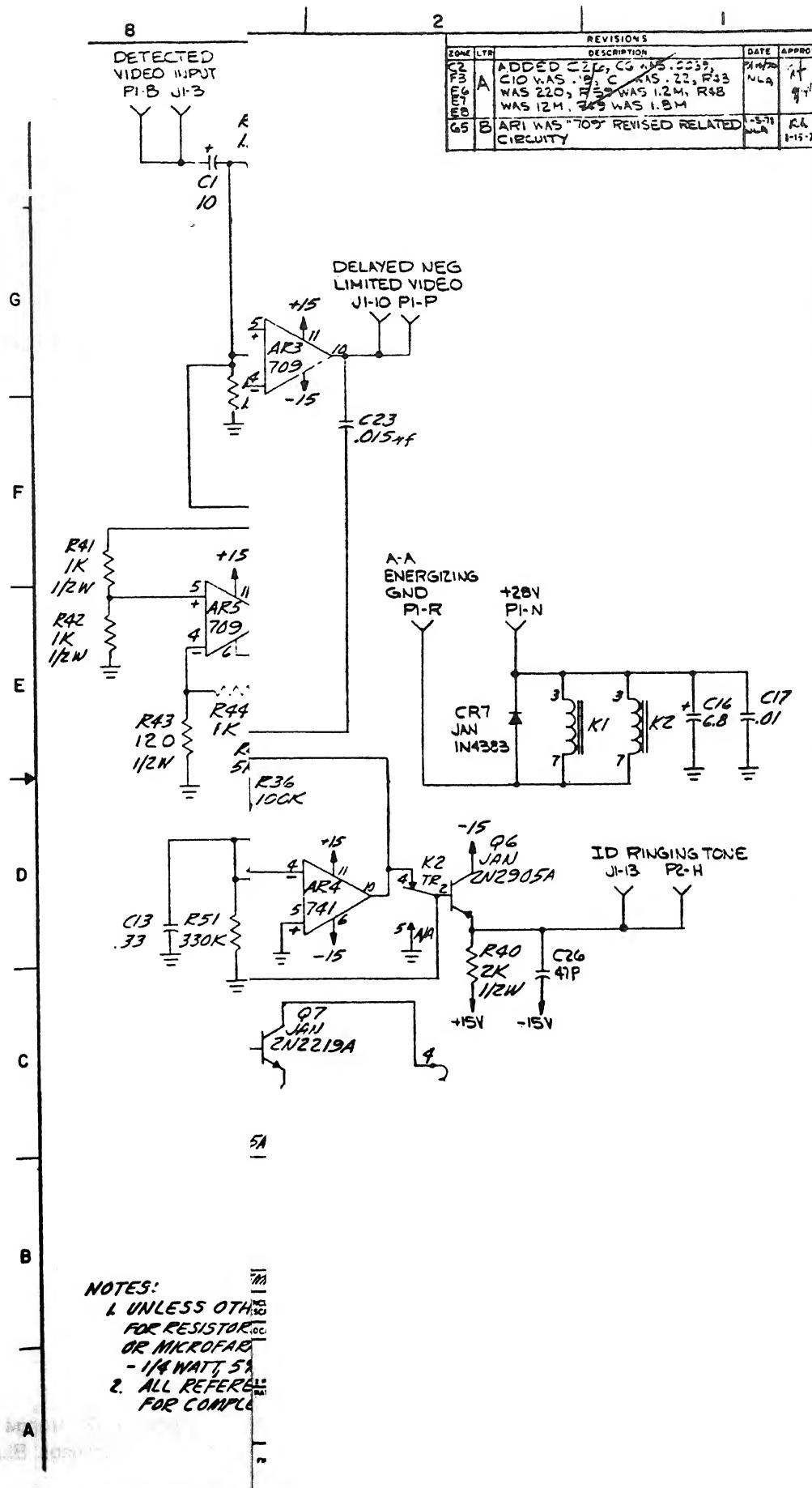


Figure 4-11. Range Decoder Module 1A1A1, Functional Block Diagram



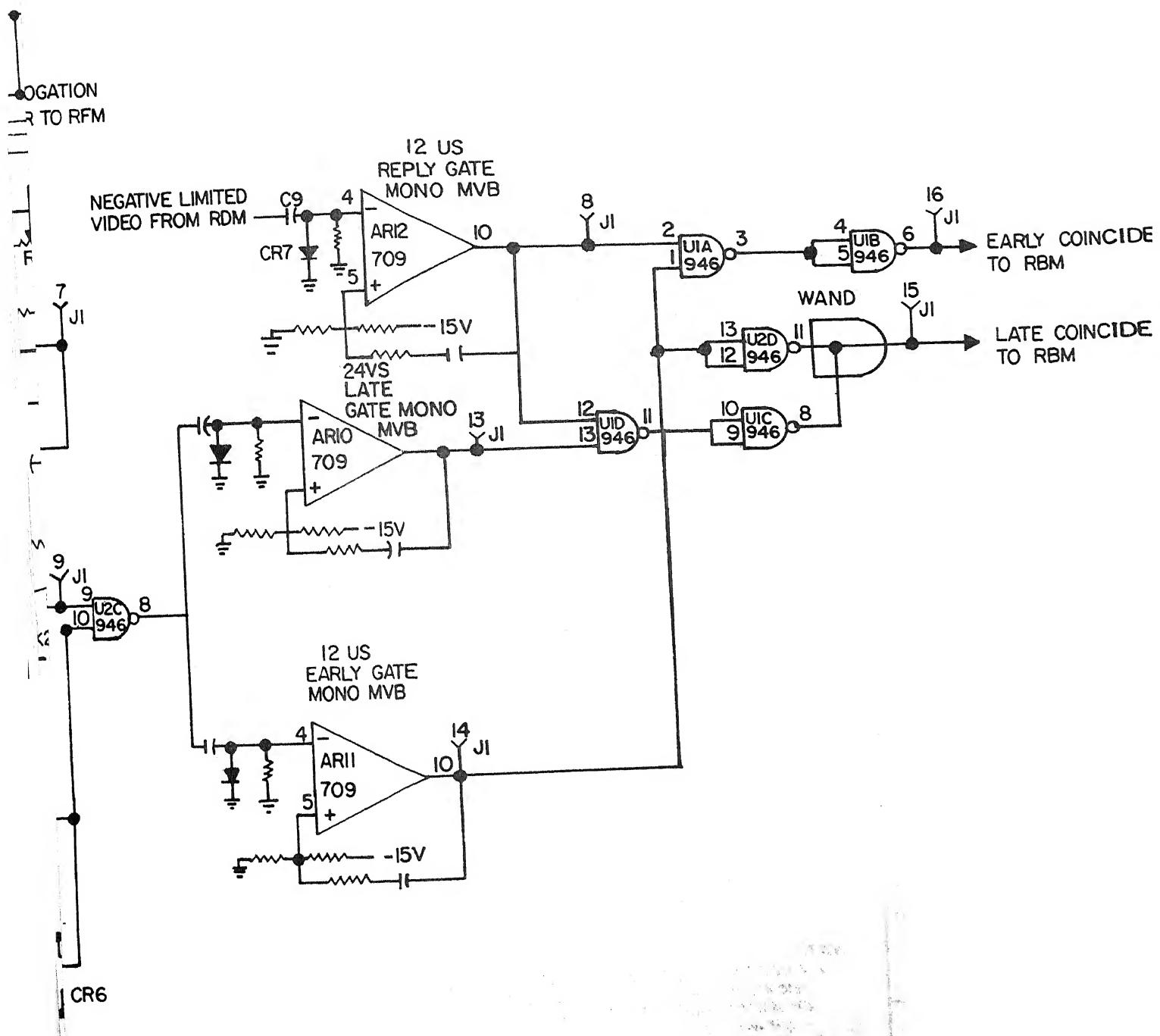
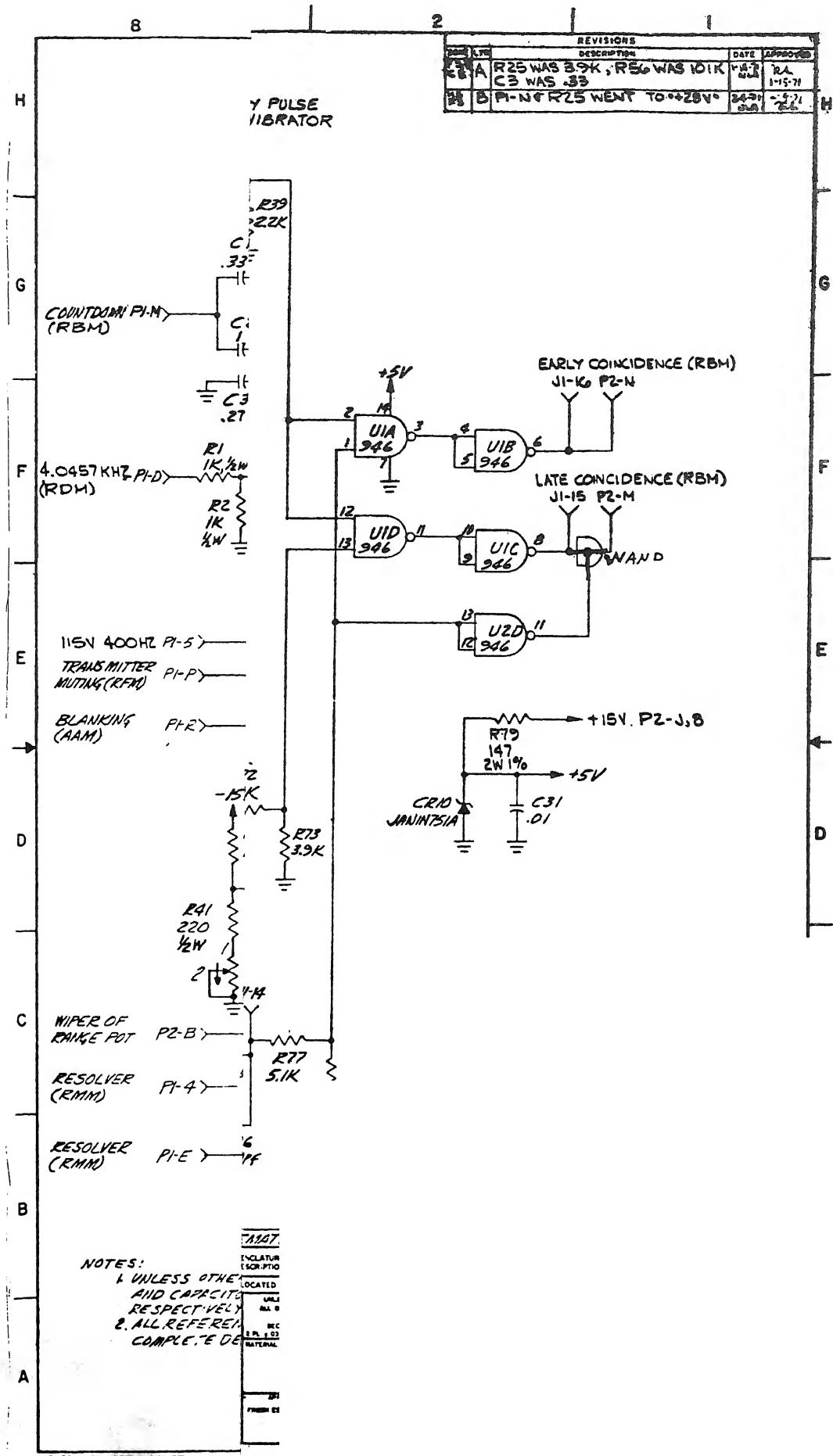


Figure 4-12. Range A Module IAI A2,
Functional Block Diagram



RELAY SWITCHING LOGIC

RELAY	SEARCH	LATE	TRACK	MEMORY
K2	ON	ON	OFF	ON
K1 K3, K4	ON	OFF	OFF	OFF
K5, K6	OFF	ON	ON	ON

NOTE: ALL RELAYS SHOWN IN OFF (DEENERGIZED) POSITION.

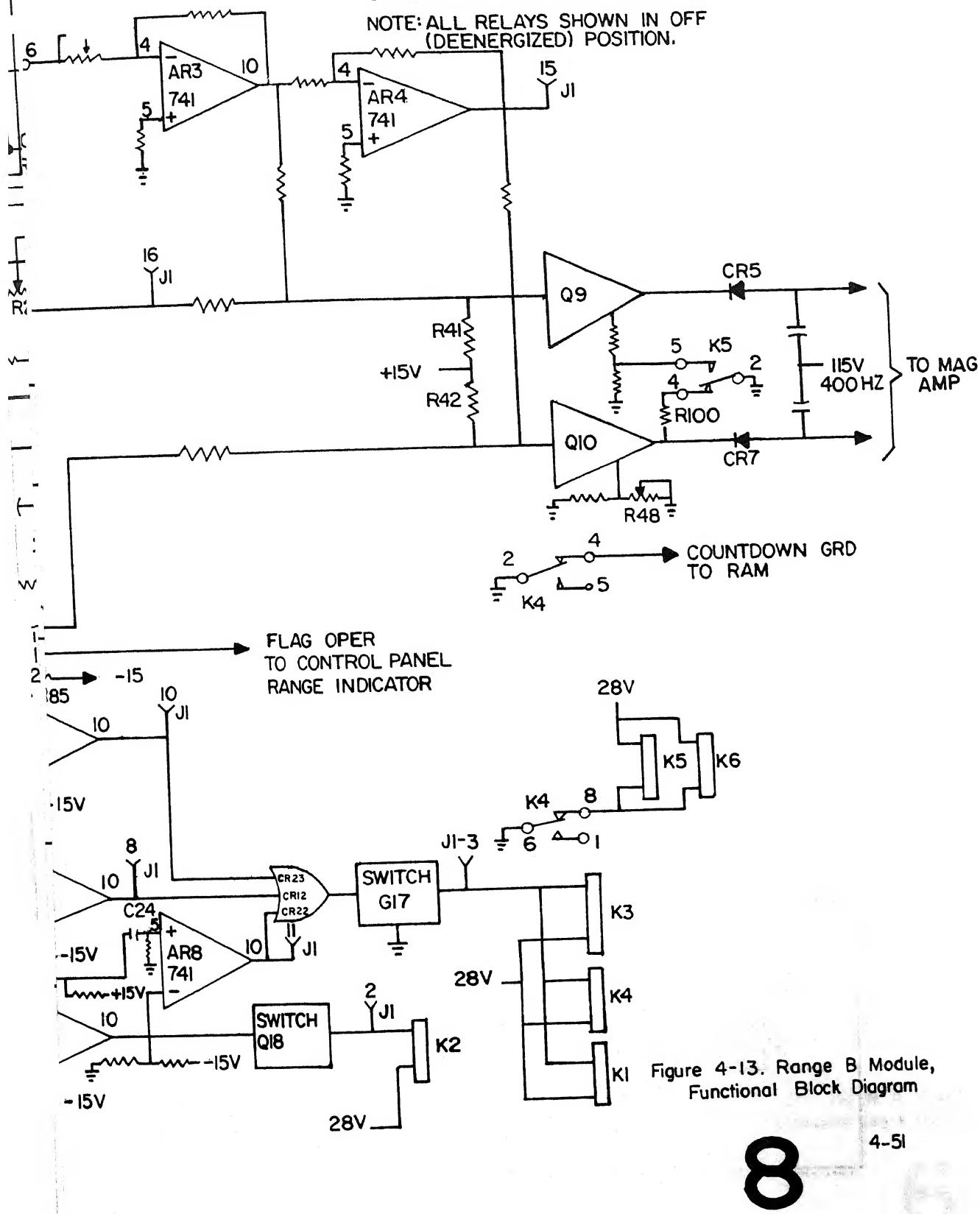
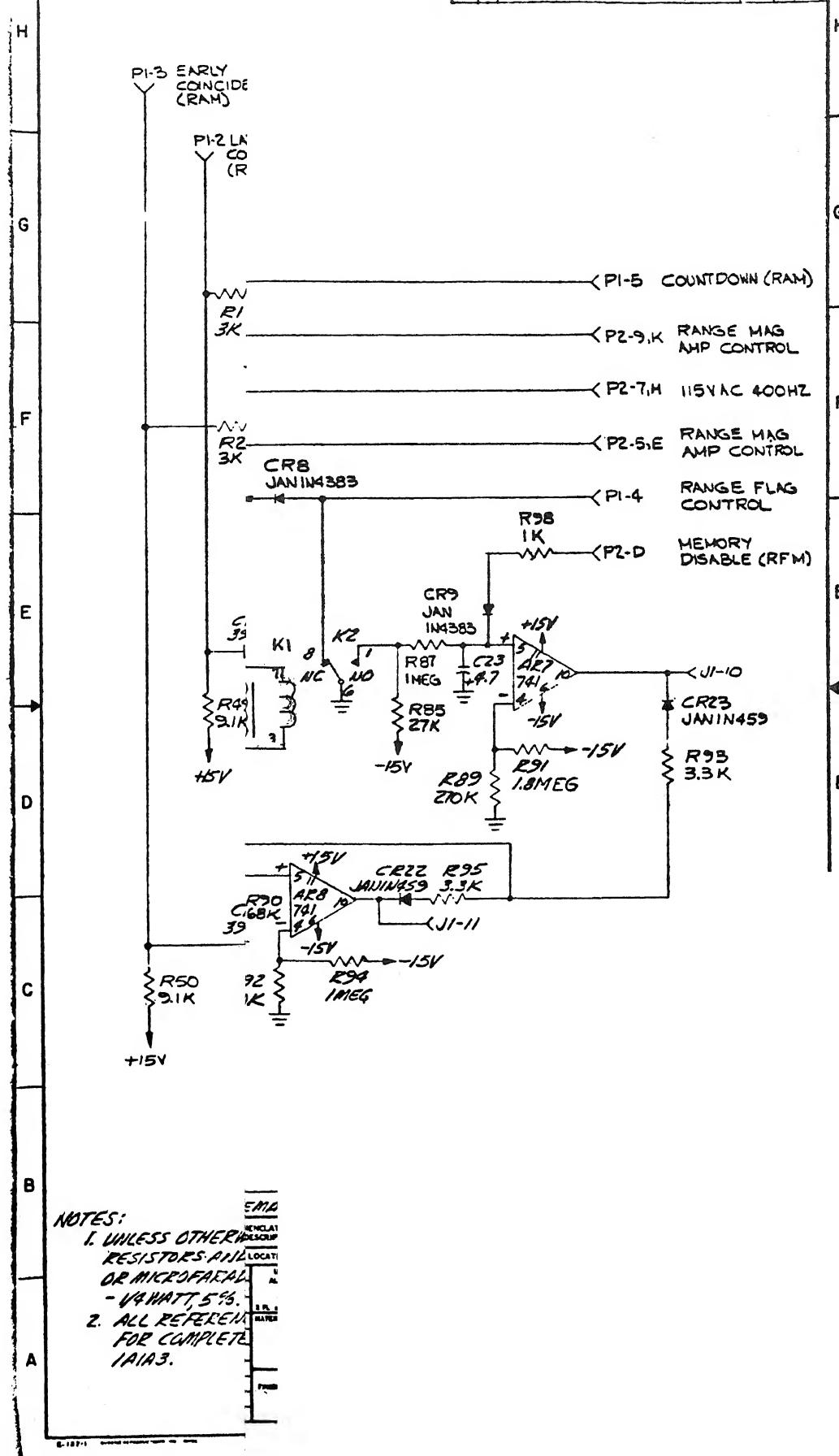


Figure 4-13. Range B Module, Functional Block Diagram

REVISIONS		DATE	APPROVED
ZONE	LRN	DESCRIPTION	INITIAL
A EXTENSIVE REVISIONS			1/10/68



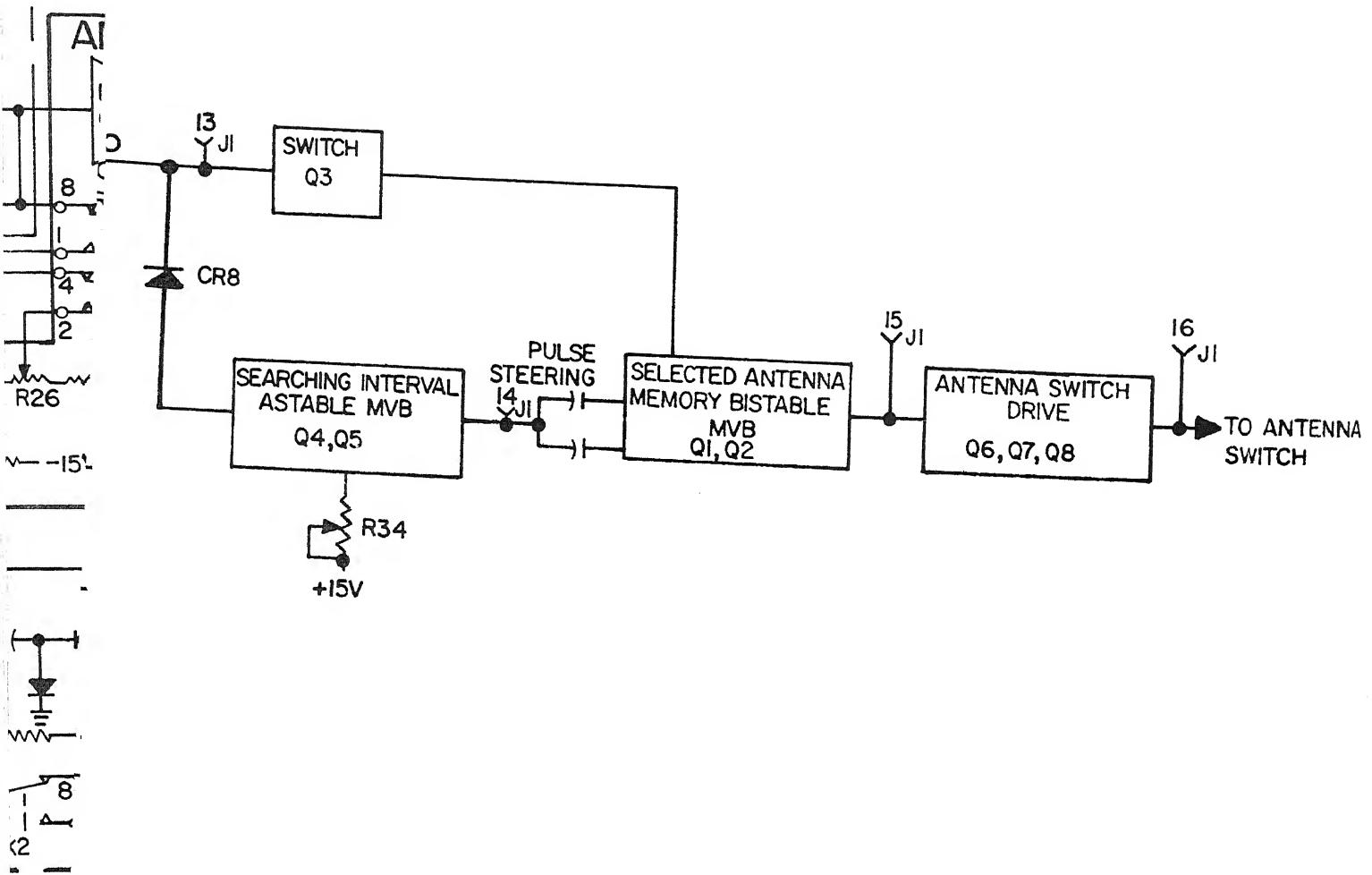
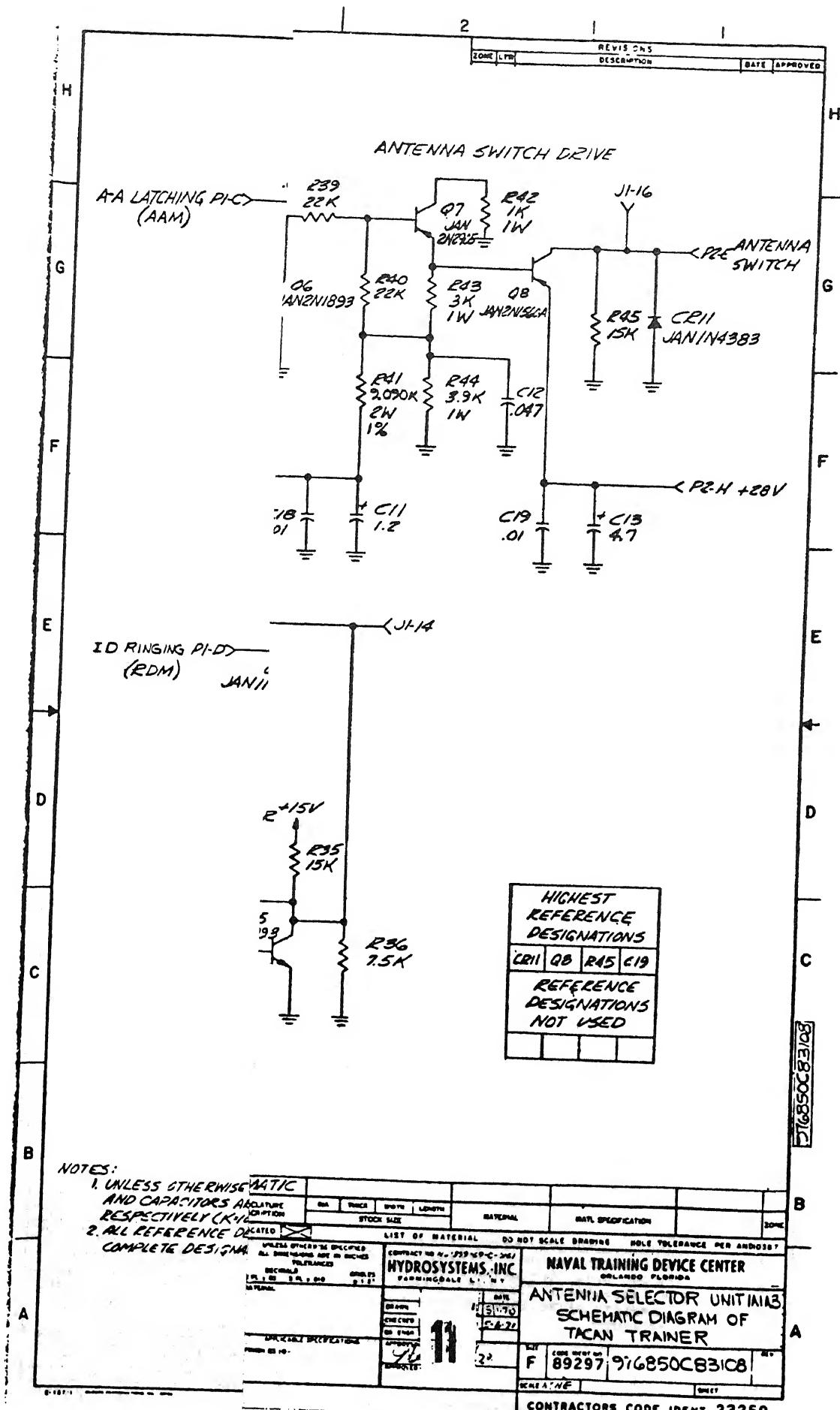
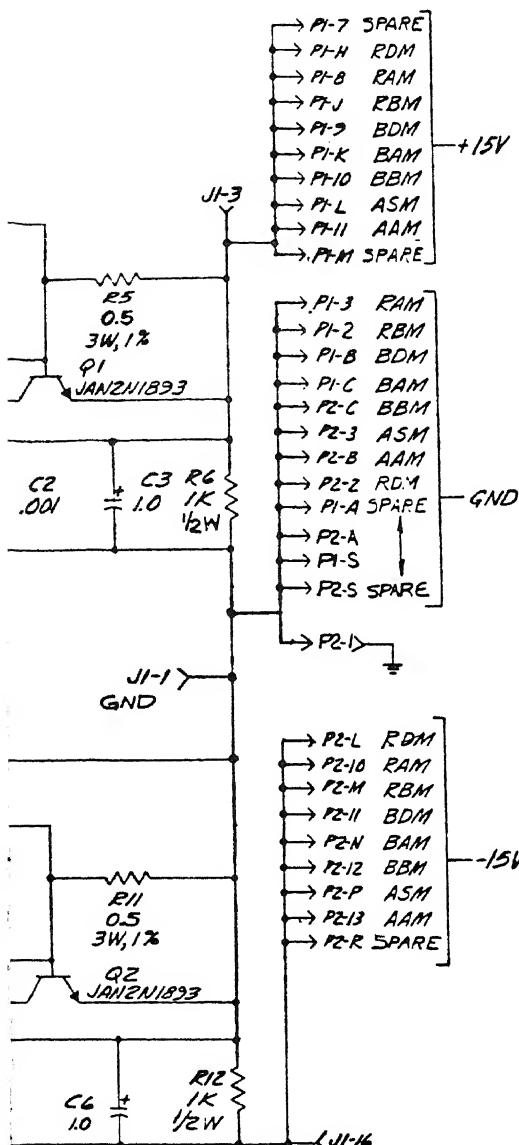


Figure 4-9. Antenna Selector Module IAIAB8,
Functional Block Diagram



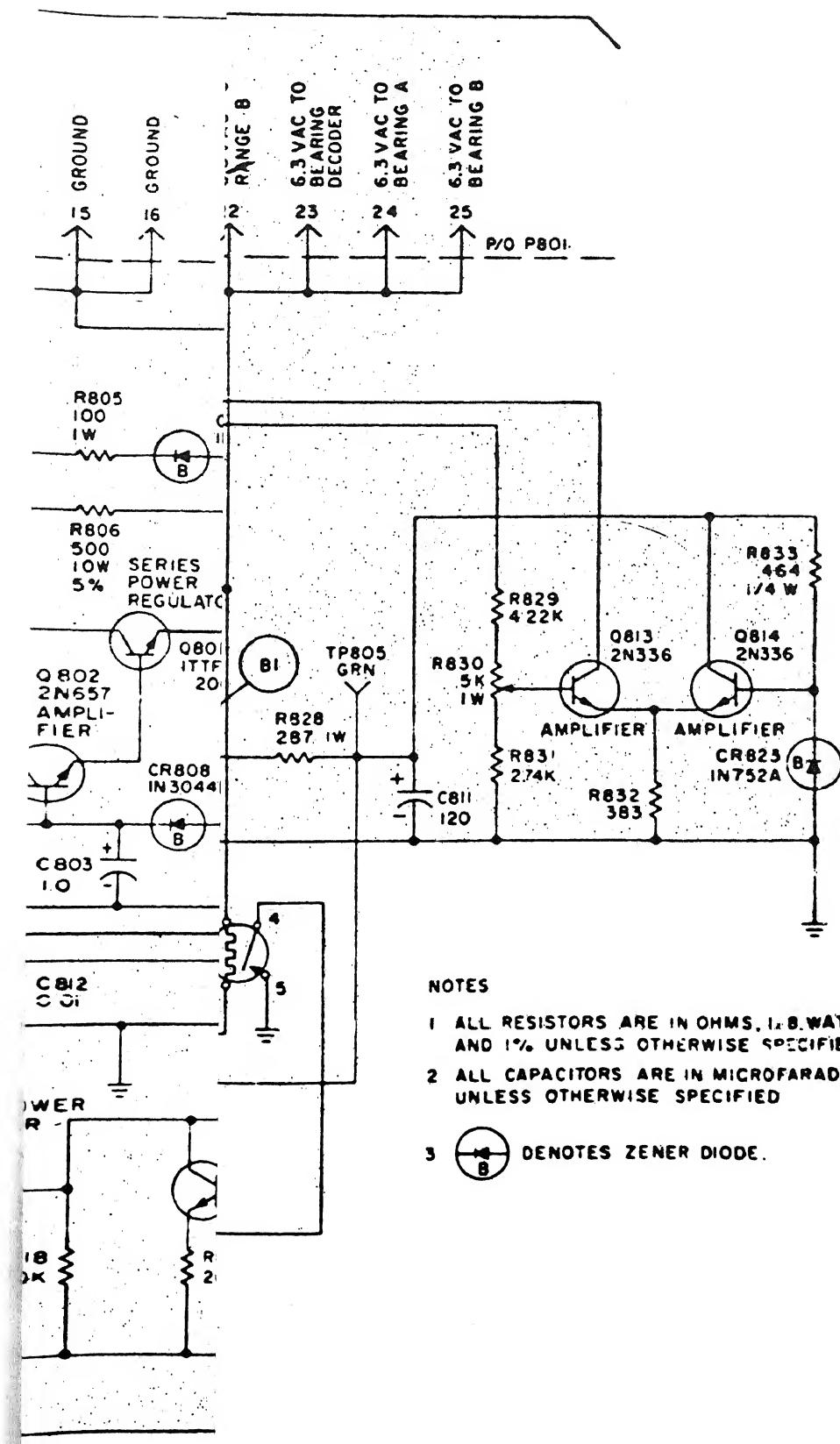
ZONE	LTR	DESCRIPTION	DATE	APPROVED
------	-----	-------------	------	----------

H
G
F
E
D
C
B
A



776850C83109		1	SCHEMATIC									
QTY	REQD	PART OR IDENTIFYING NO.	ITEM NO.	CODE IDENT	INNOCULATURE OR DESCRIPTION	MA	THICK	WIDTH	LENGTH			
STOCK SIZE										MATERIAL	INATL. SPECIFICATION	ZONE
PART NUMBER MARKING PER MIL-STD 130 LOCATED												
LIST OF MATERIALS DO NOT SCALE DRAWING HOLE TOLERANCE PER ANDROID												
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES TOLERANCES DECIMAL 0.001 INCHES 0.0005 INCHES												
CONTRACT NO. N00139-69-C-0461 HYDROSYSTEMS, INC. FARMINGDALE, NY												
NAVAL TRAINING DEVICE CENTER ORLANDO FLORIDA												
POWER SUPPLY UNIT 1A1K3 SCHEMATIC DIAGRAM OF TACAN TRAINER												
REF 776850C83109 8H7												
QTY	REQD	NET ASSEMBLY	USED ON	APPLICATION	APPLICABLE SPECIFICATIONS	12	1	BY	DATE			
FIRMAN 03-10-1970												
F-11 COM. NO. 89297 776850C83109												
SCHEMATIC SHEET												

CONTRACTORS CODE IDENT 23259



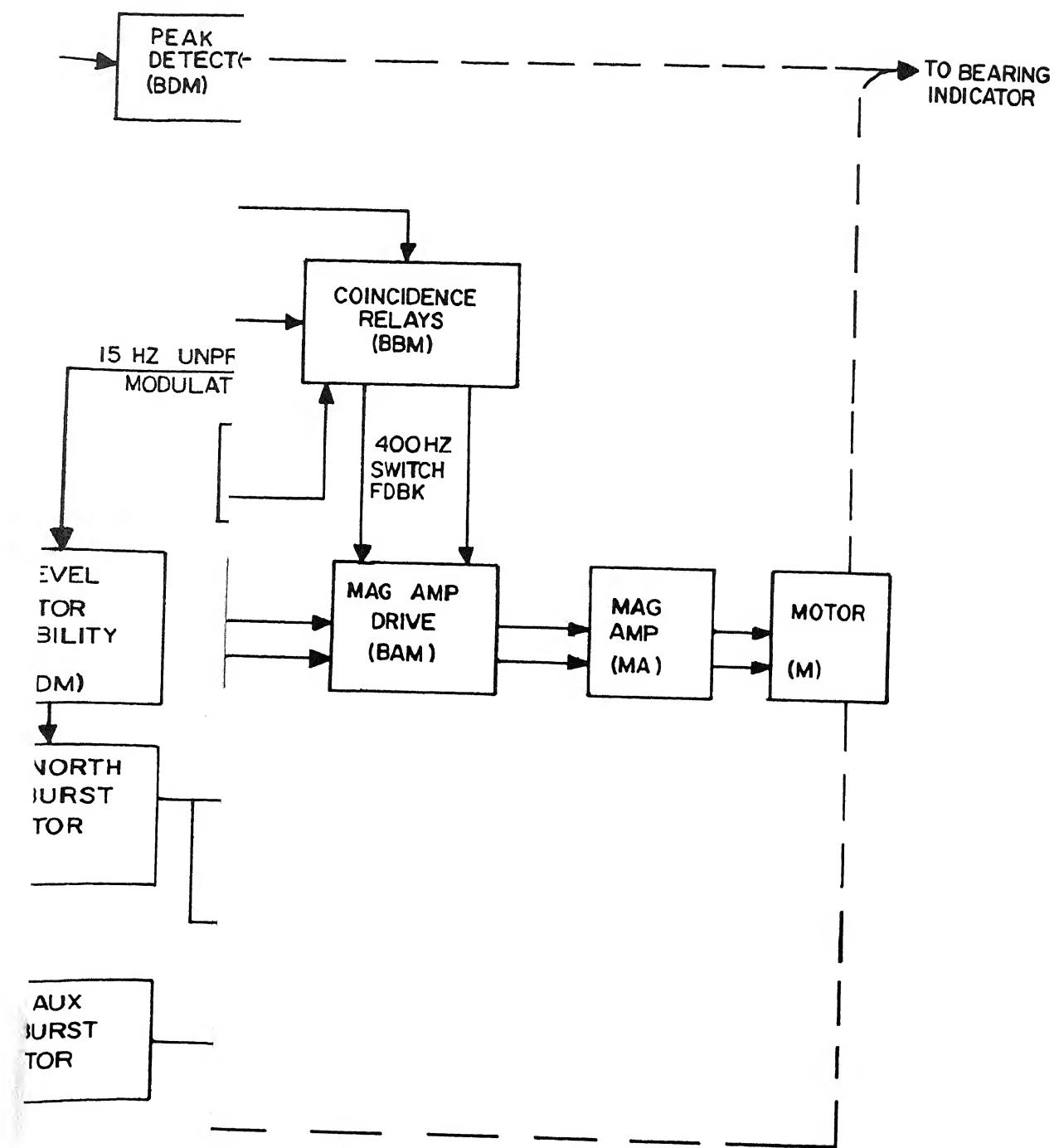
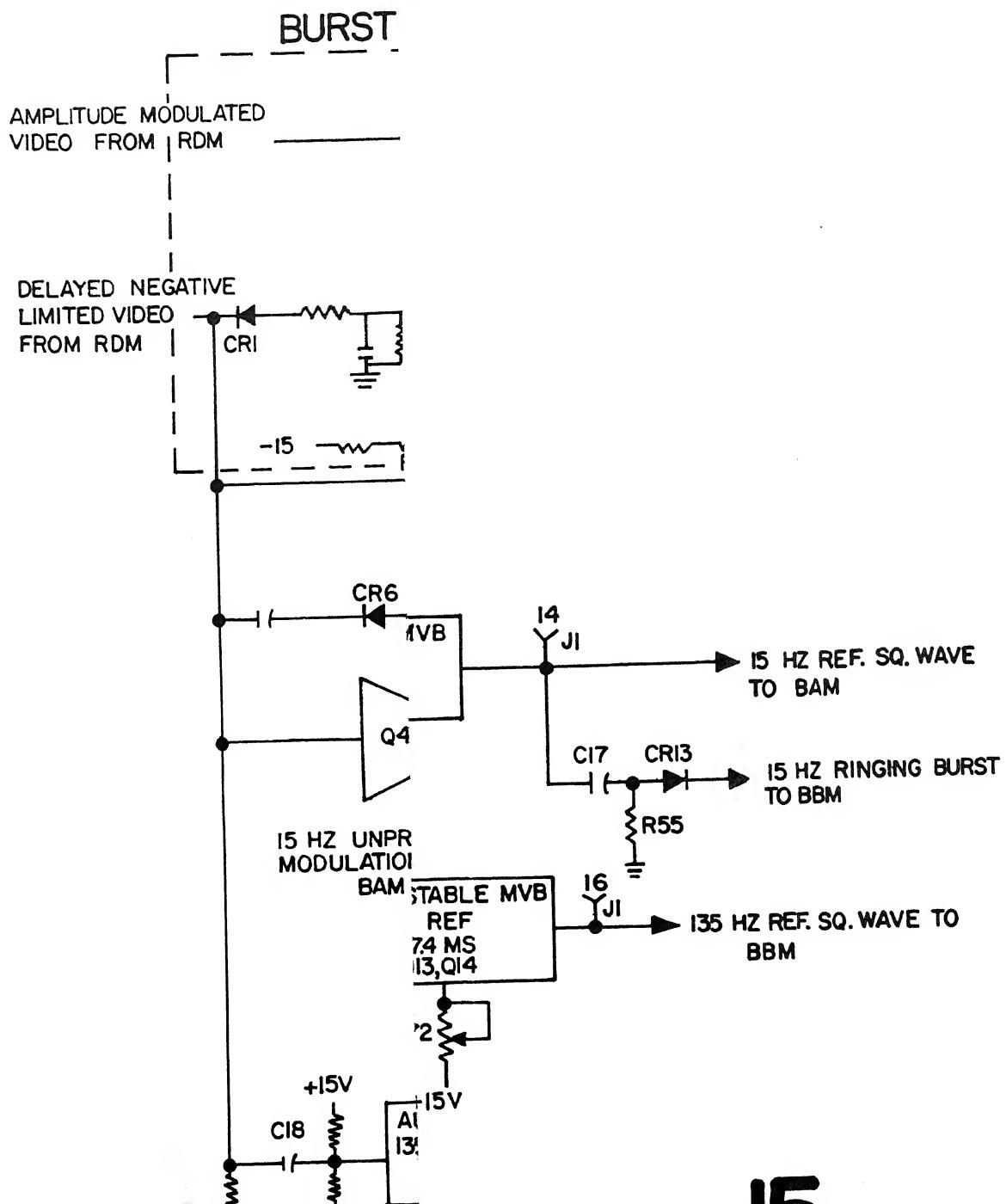


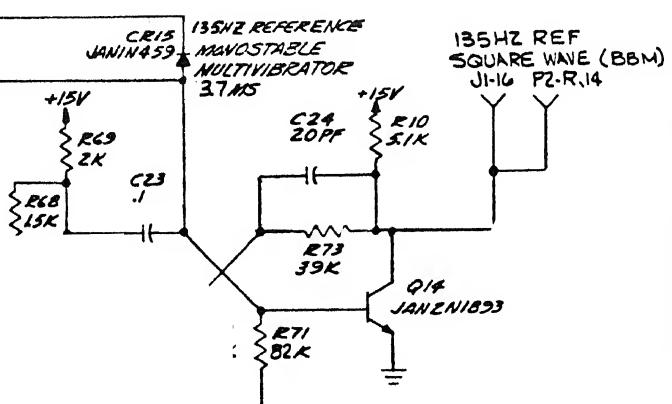
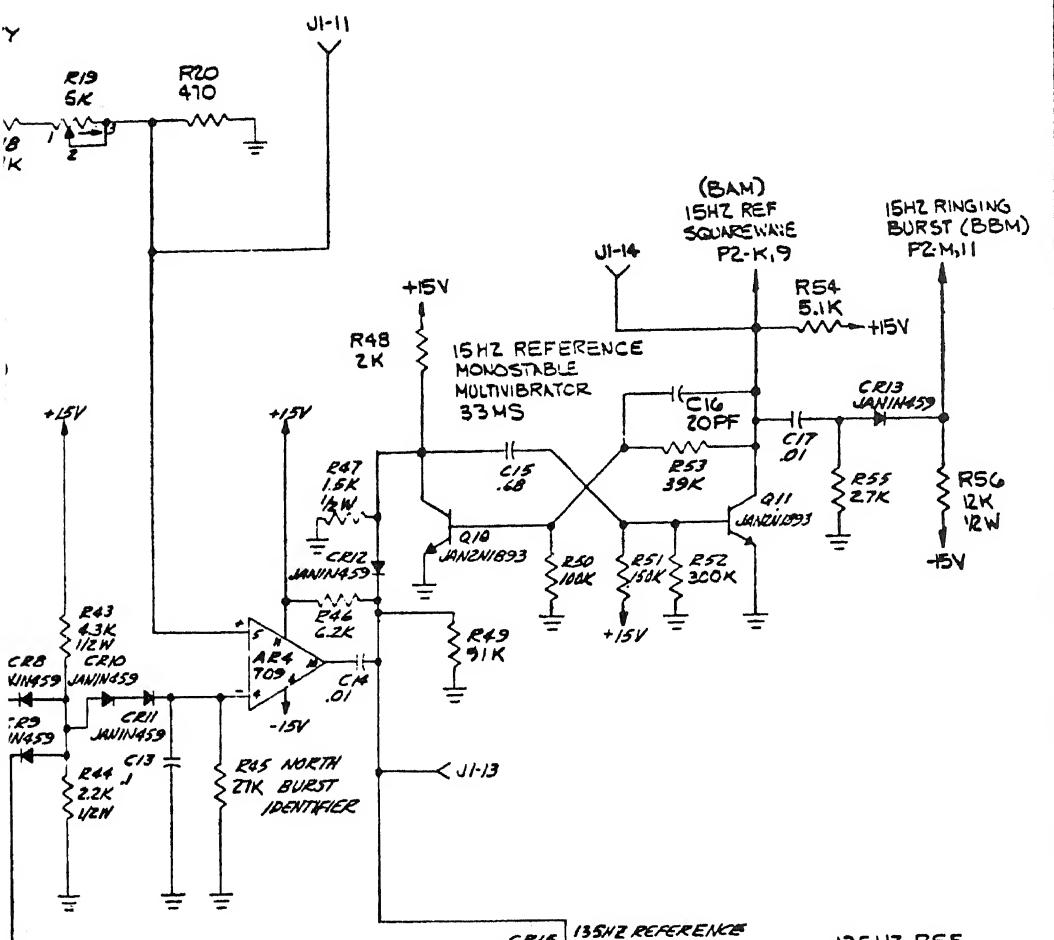
Figure 4-16. Bearing Subsystem, Functional Block Diagram



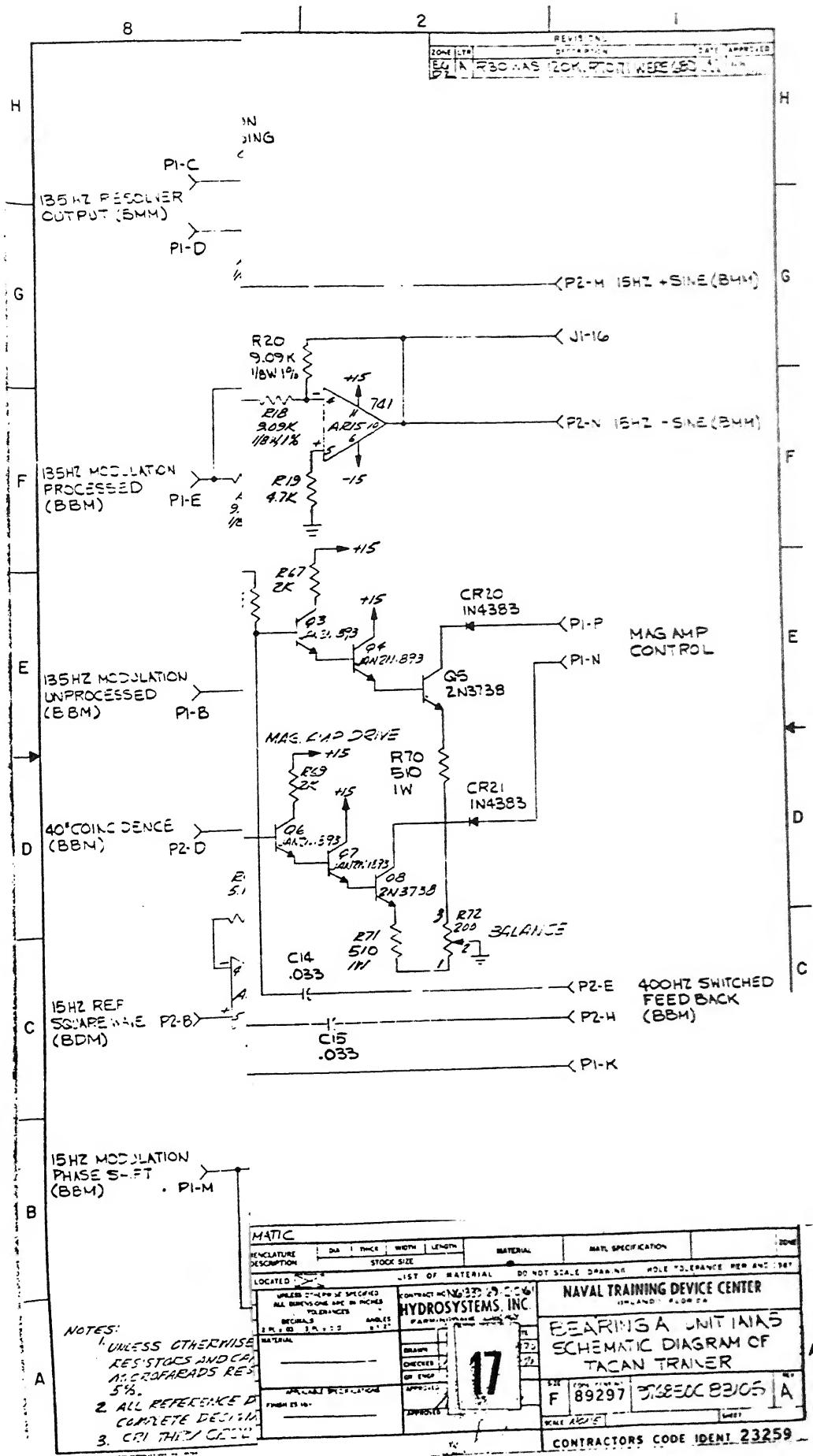
15

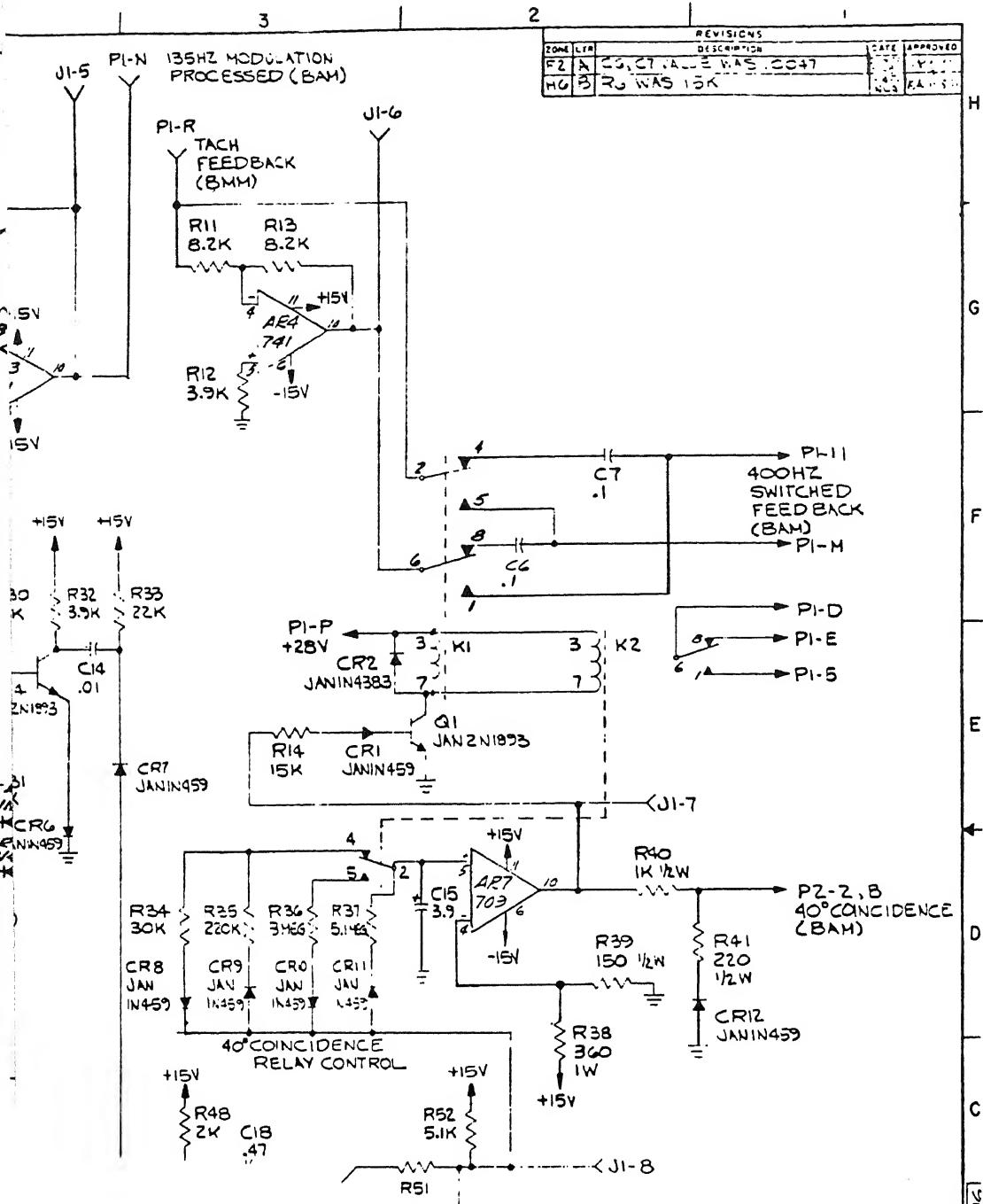
Figure 4-17. Bearing Decoder Module IAI4, Functional Block Diagram

		REVISIONS	DATE	APPROVED
ZONE	LET	DESCRIPTION	PRINTED	REVIEWED
82	A	R49 VALUE WAS 4.7K	10/10/68	10/10/68
GS	B	R14 VALUE WAS 3.3K	10/10/68	10/10/68

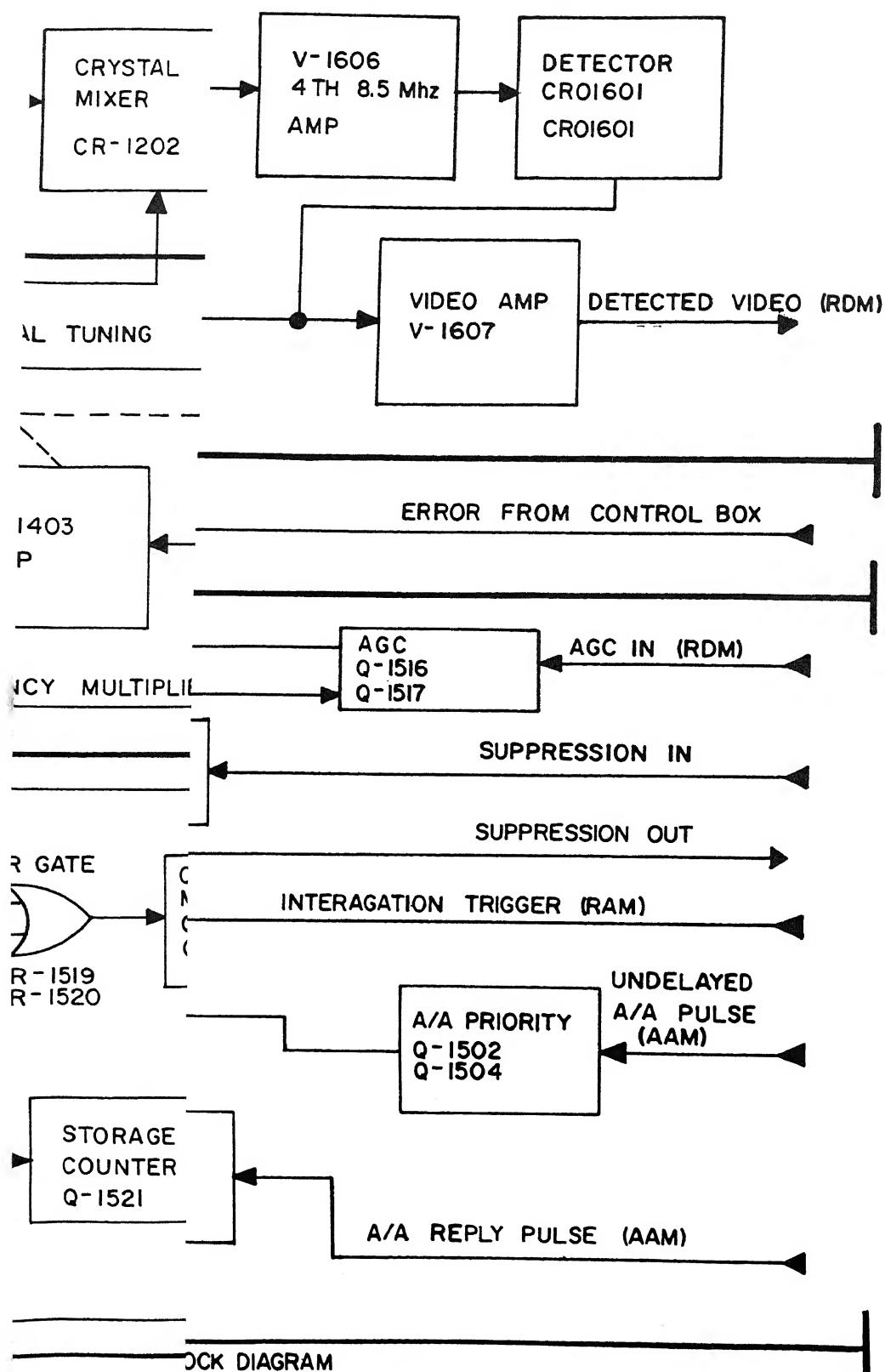


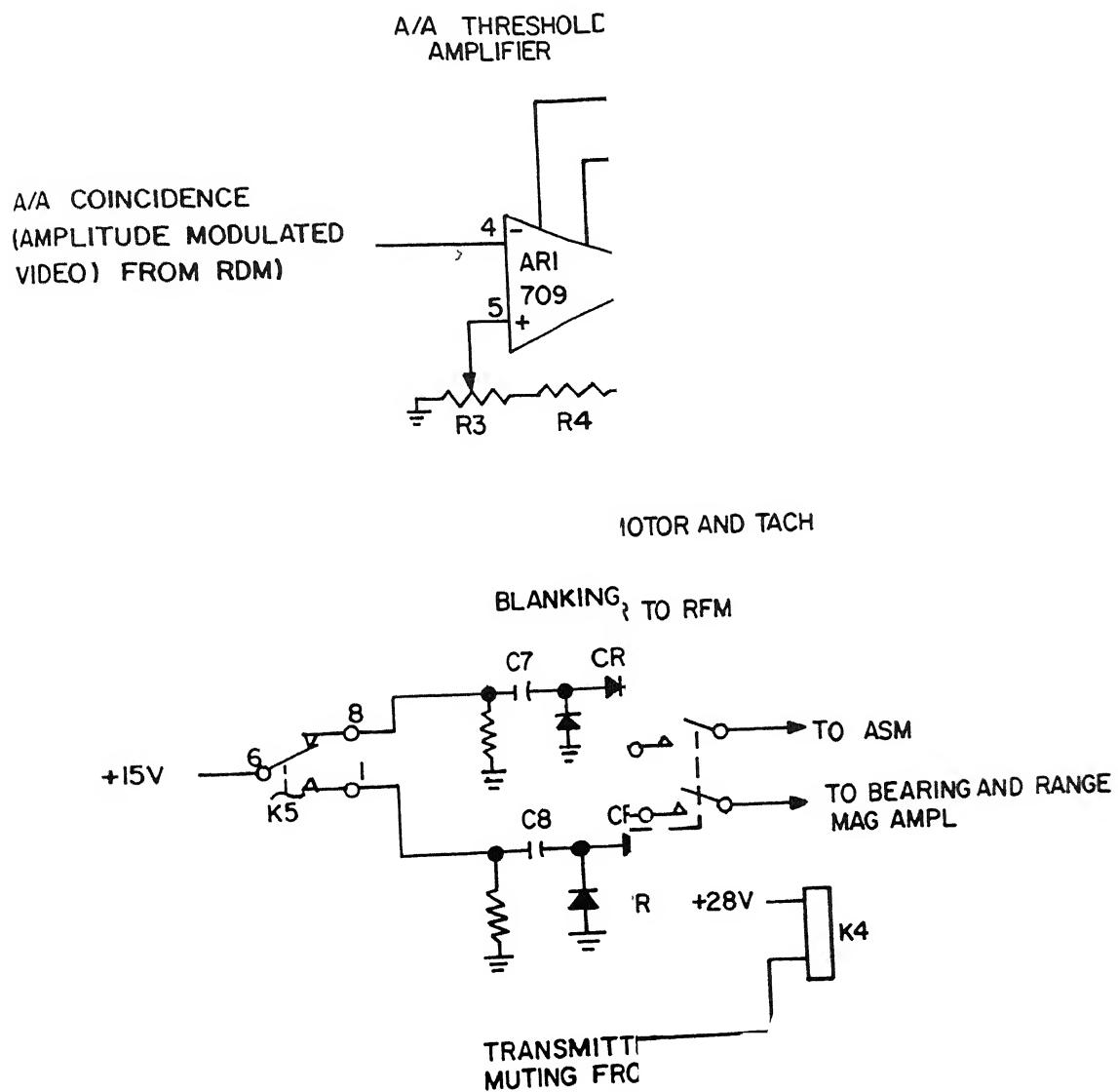
MATERIAL	MATERIAL SPECIFICATION		ZONE
DO NOT SCALE DRAWINGS		HOLE TOLERANCE PER ANDIS 878	
NAVAL TRAINING DEVICE CENTER ORLANDO, FLORIDA			
BEARING DECODER UNIT/1A19 SCHEMATIC DIAGRAM OF TACAN TRAINER			
DATE CODE 89297		876850C83104	
SCALE 1/4"		SWIFT	
CONTRACTORS CODE IDENT 23259			

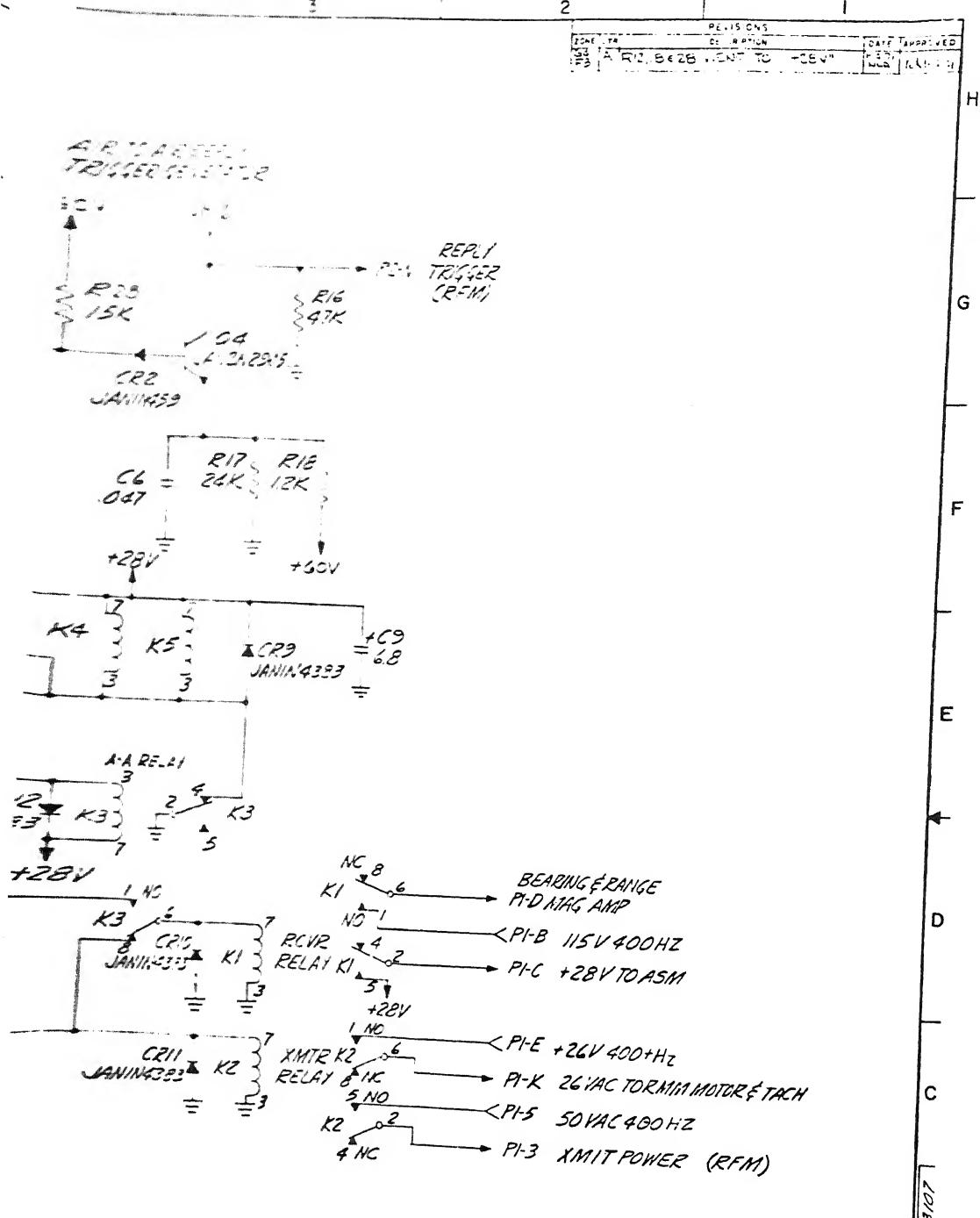




CONTRACTORS CODE IDENT 23259







157685CC83107		SCHEMATIC										
ITEM NUMBER	PART NO.	ITEM NO.	CODE IDENT	NOMENCLATURE OR DESCRIPTION	DIA.	THICK.	WIDT.	LENGTH	STOCK SIZE	MATERIAL	MATERIAL SPECIFICATION	ZONE
LIST OF MATERIAL												
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES TOLERANCES												
DECIMAL INCHES ANGLES IN. 1/16 1/32 1/64 1/128												
WATER												
CONTRACTOR NO. 89297 10-26-64 HYDROSYSTEMS, INC. P.O. BOX 10000, ORLANDO, FLORIDA 32801												
DO NOT SCALE DRAWING HOLE TOLERANCE PER ANC-C387												
REF 89297-10-26-64 BH7 DATE ISSUED 10-26-64 REVISION 10-26-64 APPROVAL												
MATERIAL SPECIFICATIONS FINGER 83 10-10												
21												
NAVAL TRAINING DEVICE CENTER ORLANDO, FLORIDA												
AIR TO AIR UNIT/ANT SCHEMATIC DIAGRAM OF TACAN TRAINER												
CONTRACTOR'S CODE IDENT 23259												

	8	2	1
H	ZON	REV	DATE APPROVED
G			
F			
E			
D			
C			
B			
A			

TENS SHOWN ARE
IE DESIGNATOR

A9 POWER SUPPLY SCHEMATIC
TEST POINT FUNC: 34570723

J1-1 GROUND

1 NOT USED
2 +15VDC
3 +28VDC
4 +28VDC
5 NOT USED
6
7
8
9
10
11
12 NOT USED
13 +28VDC
14 NOT USED
15 NOT USED
J1-16 -15VDC

A6 BEARING B
TEST POINT FUNC:

J1-1 GROUND

1 135HZ REFERENCE
2 135HZ MODULUS
3 135HZ MODULUS
5 135HZ MODULUS
6 INVERTED RATE
7 40° COINCIDENCE
8 40° COINCIDENCE
9 SUMMED SHZ
10 40° GATE
11 NOT USED
12
13
14
15
J1-16 NOT USED

AMPLIFIER
JUNCTION
3 AMPL CONTROL
3 AMPL CONTROL
3 AMPL OUTPUT TO MOTOR

A5 AMPL CONTROL
TEST POINT FUNC:

J1-1 GROUND

1 135HZ REFERENCE
2 135HZ MODULUS
3 135HZ MODULUS
5 135HZ MODULUS
6 INVERTED RATE
7 40° COINCIDENCE
8 40° COINCIDENCE
9 SUMMED SHZ
10 40° GATE
11 NOT USED
12
13
14
15
J1-16 NOT USED

A3 RANGE B
TEST POINT FUNC:

J1-1 GROUND

1 TRACK RELAY
2 LATE COINCIDENCE
4 NEGATIVE LATE ACTION
5 NEGATIVE EARLY 00HZ
6 LATE COINCIDENCE OUTPUT
7 EARLY COINCIDENCE MEASURING POT
8 LATE RELAYE
9 NOT USED
10 TRACK MEMORY
11 LATE COINCID
12 POSITIVE EARLY MC
13 POSITIVE LATE MC
14 LATE COINCID
15 RANGE RATE
J1-16 EARLY COINCID

44-101

ITEM	DIAM	THICK	WIDTH	LENGTH	MATERIAL	MAPL SPECIFICATION	EDM
OPTION			STOCK SIZE				

TEC > LIST OF MATERIAL DO NOT SCALE DRAWING HOLE TOLERANCE PER ANG C987

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES TOLERANCES	DATA SHEET NO. 350-1000 C-00
DECIMALS 1/16 1/32 1/64	HYDROSYSTEMS, INC.
1/16	PARKINGDALE, L.I. NY
	PRINTED 10/10/84
	DRAWN BY: C. G. C. CHECKED BY: M. S. APPROVED BY: M. S.
	22
	RECEIVER TRANSMITTER UNIT SCHEMATIC DIAGRAM OF TACAN TRAINER
	REF. NO. F 89297 076850C81101
	PRINTED 10/10/84

CONTRACTORS CODE IDENT 23259